

(c) Where are the local max/min

max

$$x=6$$

$$x=1$$

$$\rightarrow x=4$$

min

$$x=3$$

$$x=5.5$$

$$x=0$$

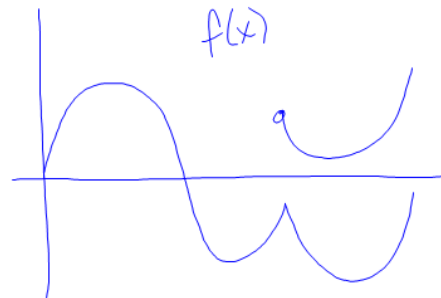
(a) over what intervals is the function increasing/decreasing
 increasing $f'(x)$ pos (0,1) (3,4) (5.5,6)
 decreasing $f'(x)$ neg (1,3) (4,5.5)

(b) over what intervals is the function concave up/down
 concave up/down $(1,3)$
 up: rate of change of $f'(x)$ positive: $(4,6)$
 or $f''(x)$ $(2,4)$

down: rate of change slope of $f'(x)$ neg. $(0,2)$

(d) Find x-values of inflection pts.
 $x=2$, $x=4$

(e) sketch $f(x)$



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Turn in your work for 45 min

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